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Neutron induced cross section measurements

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In this presentation, I shall give an overview of neutron-induced cross section measurements at n_TOF, both past and present. A selection of the principal characteristics of the time-of-flight facility n_TOF at CERN is given together with several examples of measurements of interest to Nuclear Astrophysics.

Finally, I will present some ideas of possible future experiments, including the ones that could become feasible thanks to the availability of NEAR, a new irradiation station available at n_TOF. The possibility to produce sample material at the present or upgraded ISOLDE facility and then irradiated at the NEAR station will represent therefore a great opportunity for synergy between these two CERN facilities.

Field of work

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